

Deep large Area Sky Surveys at metre wavelengths using GMRT - Some Challenges

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Abstract

We have been studying several fields (like ELAIS-N1, GOODS-N/S, AKARI deep field) and making their deep images at metre wavelengths using the GMRT. We are also carrying out, TIFR GMRT Sky Survey (TGSS). TGSS is radio continuum survey at 150 MHz, covering about 32000 sq. deg of the sky north of declination of -30 degrees and with typical rms noise of 7 mJy/beam at an angular resolution of about 20 arcsec. We describe some challenges and ways we tackle them for making these deep large area sky surveys at metre wavelengths using GMRT.